

Assignment- 4

Assignment Date

30 October 2022

Student Name

Vethaprasath M

Student Roll Number

212219060293

Maximum Marks	2 Marks
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Question 1:

Pull an image from docker hub and run it in docker playground.



The screenshot displays the Docker Playground interface. On the left, there's a sidebar with a clock showing 03:57:32, a 'CLOSE WINDOW' button, and a section for 'Instances' with a '+ ADD NEW INSTANCE' button and a '181 MB CPU' indicator. The main area shows details for a container named 'cddvksm0_cddvkvmDqau000a07j5g'. It lists the IP as '192.168.0.8', has an 'OPEN PORT' button, and shows resource usage: '1.24% (49.52MB / 3.99GB)' and '0.31%'. Below this, there's a 'TERMINAL' button and an 'EDITOR' button. The terminal window is active, showing a series of commands and their outputs:

```
WORKING!!!!
# This is a sandbox environment. Using personal credentials
# is HIGHLY discouraged. Any consequences of doing so are
# completely the user's responsibility.
# The PND team.
=====
[root@localhost ~]# docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
24679772121e: Pull complete
Digest: sha256:e389a77aef4a4d12674a6c1e0d0f1507c961a1a6f33a60f11d1e7
Status: Downloaded newer image for hello-world:latest
[root@localhost ~]# docker run hello-world
```

An 'Activate Windows' watermark is visible in the bottom right corner of the terminal window.



Question 2:

Create a docker file for the job portal application and deploy it in Docker

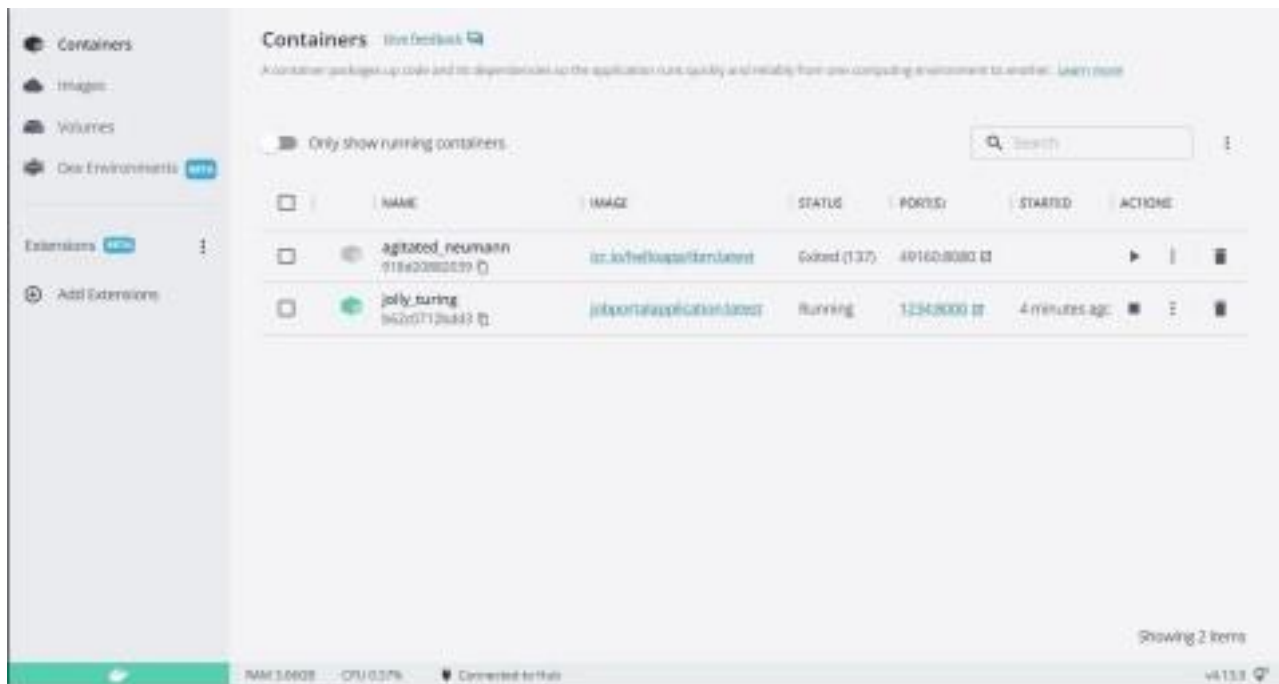
desktopapplication.DOCKER FILE:

```

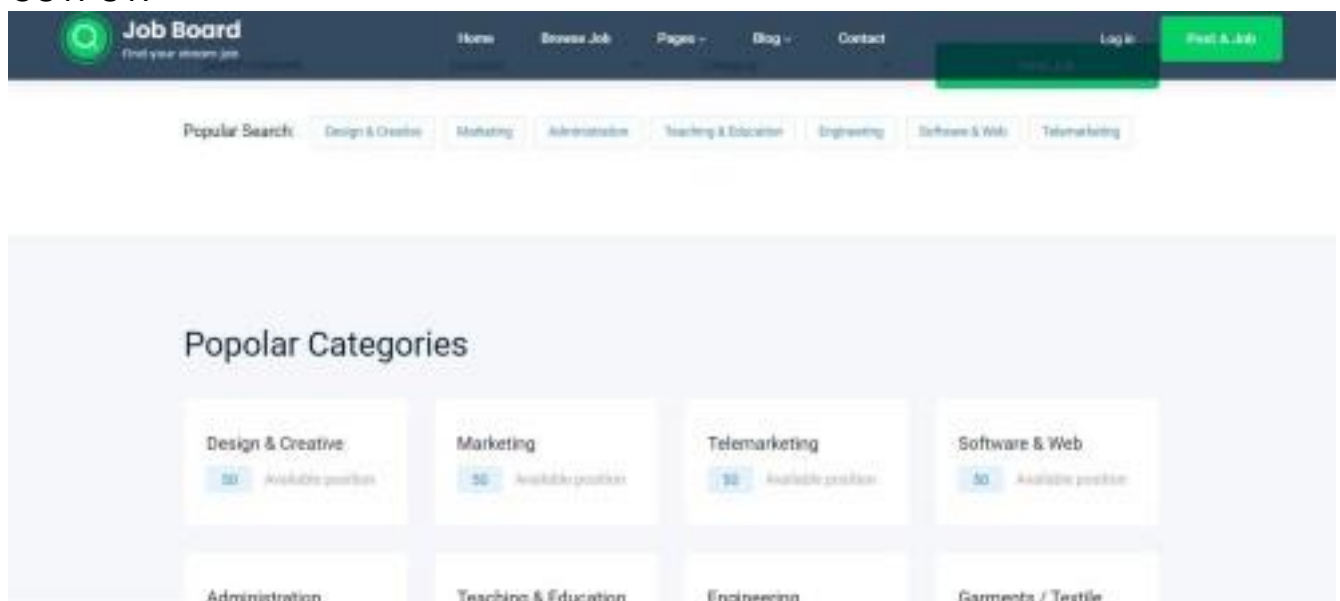
1 FROM python:3.8-buster
2
3 WORKDIR /app
4
5 COPY requirements.txt /app/
6
7 RUN pip install -r requirements.txt
8
9 COPY . /app/
10
11 RUN cp .env.dev.sample .env
12
13 EXPOSE 8080
14
15 RUN chmod +x entrypoint.sh
16
17 CMD ["sh", "entrypoint.sh"]

```

DEPLOYMENT OF JOBPOTAL APPLICATION:



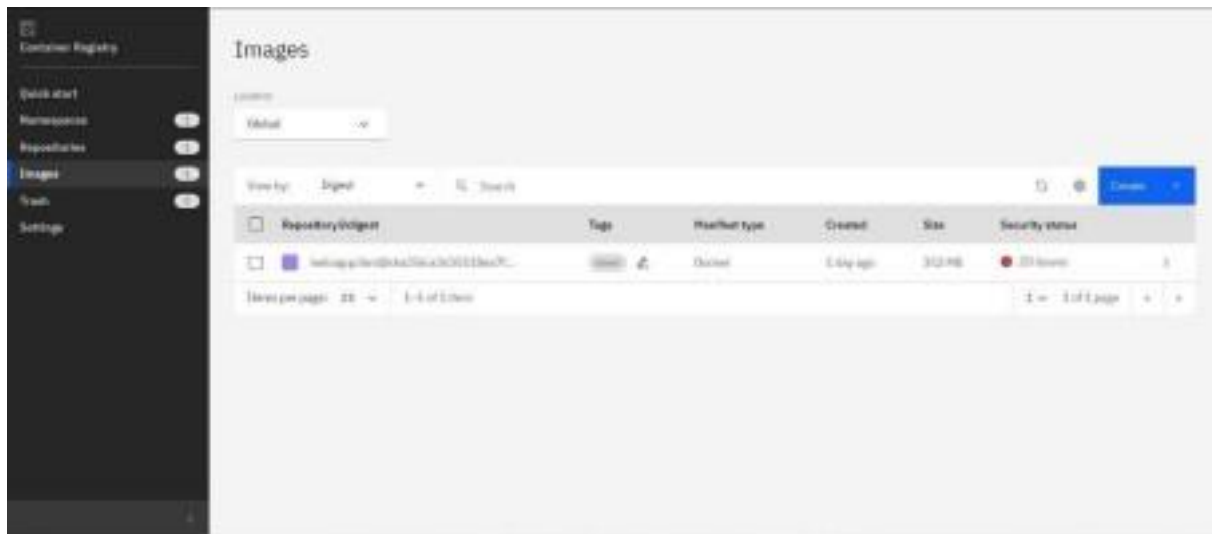
OUTPUT:



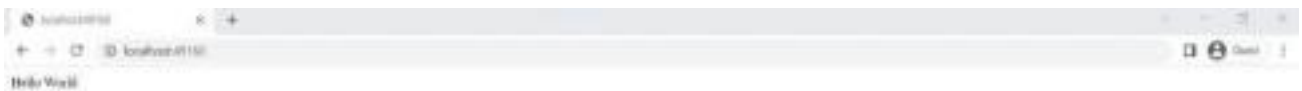
Question 3:

Create a IBM container registry and deploy hello-world app or job port app.IBM

CONTAINER REGISTRY DEPLOYMENT:



OUTPUT:



Question 4:

Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

Creating Kubernetes cluster in IBM cloud and exposing node port:

